VENTILATION—PURE AIR.

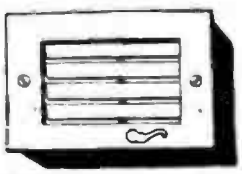
Sherringham's Ventilator, for the admission of pure air through an

EXTERNAL WALL.

With single pulley, from 6s. each; with leading pulley, from 8s. 6d.

These Ventilators are so arranged that the requisite quantity of air may be admitted for the due ventilation of an apartment without the slightest draught being felt by the occupants; and as they are placed in the external wall, their action is not impeded when the house is closed for the evening, at which time a constant supply of fresh air is most required.—HAYWARD, BROTHERS, sole Manufacturers, 198, Blackfriars-road, and 117, Union-street, Borough, and of all respectable ironmongers, builders, &c.

REGISTERED VENETIAN VENTILATOR



For admission of external air or carrying off impure air from rooms, from 4s. 6d. each.—Class 22, Great Exhibition.

J. H. BOLBBYER and Co., Ironmongery, Brass Foundry, Nail and Tool Warehouse, 14, Stanhope-street, Clare-market, London. Established nearly 200 years for the sale of goods from the best manufacturers at the lowest prices.

NOIRSAIN'S VENTILATING GRATES

and STOVES.—A long sought for desideratum at last obtained. Great Economy in Fuel,—entire Prevention of Smoking in Chimneys—and Perfect Regulation of the Temperature of Rooms, effected by the new Ventilating Grates, which may be applied to any fire-place.

M. NOIRSAIN solicits the attention of the public and scientific men to his patent apparatus,—the utility and superior advantages of which will be satisfactorily demonstrated at his Depôt, 121, REGENT-STREET, to any visitor. The highest testimonials given. Prices from Two Guineas upwards.

CHOPS and STEAKS BROILED by GAS,

with rapidity, for less than One Halfpenny. GAS APPARATUS for HEATING LAUNDRESSES, HATTERS, and TAILORS' IRONS, and PATENT CALORIFERE GAS STOVES for warming halls, shops, rooms, conservatories, or any places without a chimney; and many other economical applications of gas heat may be seen at CHARLES RICKETTS' Manufactory, Agar-street, Strand, opposite Charing-cross Hospital.

STOVES, RANGES, GAS FITTINGS, &c.

BENETFINK and COMPANY defy competition in the above articles, if durability, combined with elegance of design, is deemed to be the test of cheapness.

B. and Co. especially call the attention of Architects and Builders to their house, as they are admitted to have the largest and best assorted stock of STOVES, RANGES, and GAS FITTINGS in the kingdom. Their stock contains Stephenson's Patent Register Stoves, patent hemispherical ditto, patent solar ditto, and patent pyrometric ditto; the unrivalled Derby Kitchen Range, and every description of cooking apparatus. As a proof of their ability to furnish the mansion or the cottage they submit the following scale of prices:—

Fine cast black Register Stoves, 3 feet wide, from 11s. to 18s.
Highly finished Drawing-room Stoves, from 6s. to 20 guineas.
Cottage Ranges, with boiler and self-acting oven, from 35s.
Improved Kitchen Ranges, with boiler, self-acting oven, and bright fittings, from 5s.
Very strong Kitchen Ranges, with self-acting oven, best wrought iron steam boiler, bright fittings, and bright spit racks, from 30 to 18 guineas.
3-light, water-slide, gas Chandeliers, from 20s.
2-light ditto ditto, from 2 to 12 guineas.

NOTE THE ADDRESS.—BENETFINK and COMPANY, 80 and 80, CHEAPSIDE, LONDON.
Wholesale entrance, 1, IRONMONGER LANE.

MANUFACTURERS to the TRADE of

COOKING STOVES, by GAS or FUEL, either close or open. Register, Elliptic, and every description of Grate, of the best designs, including those with fire-brick back.
Bright Stoves, for drawing-rooms.
Hot Air stoves, for public buildings, shops, or halls, with ascending or descending flue.
Ship and Yacht Stoves, for cooking and warming.
Cranes, Jibs, &c.
Railing and Balcony Work.
Fire and Garden Engines, and every variety of Force and Lift Pumps.
Wrought iron FIREPROOF BOOK SAFES and Deed Boxes; also in cast-iron.
Iron Bedsteads and Cots of all kinds.
Hot Water and Steam applied for heating buildings of any size and description.

GRIGG and JENKINSON, in addition to the articles enumerated, manufacture all kinds of ironwork; and as everything is executed on their own premises, under their immediate superintendence, they can offer great facilities in price, &c. They respectfully solicit a trial.

GRIGG and JENKINSON, Finsbury Iron Works, 119 and 120, Bunhill-row, London.

TO BUILDERS, CARPENTERS, AND OTHERS

BENJAMIN WALMSLEY, IRONMONGER, BRASSFOUNDER, STOVE and RANGE MANUFACTURER, 126 and 127, LONDON-ROAD, Southwark, for the supply of builders, carpenters, cabinet-makers, upholsterers, land makers, smiths, wheelwrights, &c., at wholesale prices:—

Best Cut Sheet Flooring Brads, 11s. 6d. per cwt.

Best Cut Clasp	1½	2	2½	3 in.
and Rose	14s. 6d.	14s.	12s. 6d.	12s. 6d. per cwt.

Cast Lath, 9s. 6d. per cwt.; Sash Weights, 3s. per cwt.
Sash Pullies, 8s. per gross.

Cast Butts, per dozen pair:—	6-in., 10d.;	7½-in., 1s. 3d.;	8-in., 1s. 9d.	
Iron Rain-water pipe	1	2½	3 in.	
	6d.	10d.	1s. 1d. per yard.	
Half Round Gutter	2	3½	4 in.	
	7d.	7½d.	8½d.	"
O G Gutter	4	4½	5 in.	
	11d.	1s.	1s. 6d.	"

Air Bricks, 2s. 6d. per dozen. Hooping for Bond, 9s. 6d. per cwt.
Dr. Arnott's Ventilators, 4s. 6d. each.
2-ft. Self-Acting Cottage Ranges, with Oven and Boiler, 30s. each.
2-ft. ditto, with Wrought Bars and Bright Fittings, 35s. each.
Register Stoves, with Double Backs, 5d. per inch.
Elliptic Stoves, with Double Backs, 3½d. per inch.
Bright Register Stoves, with Two Sets of Bars, from 2l. each.

An excellent variety of Black and Bright Register Stoves kept ready for use at all prices, to which the attention of architects and builders is respectfully invited.

A large assortment of Rim, Mortice, Drawback, Iron Gate, and other kinds of Locks and Latches. An extensive Stock of neat and elegant Door Furniture, in Brass, Porcelain, Glass, and Fancy Woods.

Finger Plates, Levers, and Bell pulls en suite.
Bar, Hoop, Sheet and Rod Iron and Spring Steel.

The stock of this establishment is too extensive to be described in the limits of an advertisement; and the most correct idea that can be given of it is by stating that every trade connecting ironmongery can here select whatever they require at wholesale prices.

WALMSLEY'S, 126 and 127, LONDON ROAD, SOUTHWARK, six doors from the Obelisk.

BENHAM and SONS' IMPROVED

KITCHEN FITTINGS, as supplied by them to several of the principal Club-houses, Railway Hotels Public Establishments, and Private Families, combining great efficiency and the utmost economy of fuel with perfect simplicity of management and the most substantial workmanship. Specimens of the new Roasting Ranges, Broiling Stoves, Dishing-up Tables, Hot-water Drying-closets, Steam Kettles, &c., may be seen at the EXHIBITION, CLASS 22, No. 98, AVENUE F, ON SOUTH SIDE OF NAVE, and a large collection, including Kitchen Ranges at every gradation of price, from 5s. to 20l., at their MANUFACTORY and SHOW-ROOMS, 19, WIGMORE-STREET, CAVENDISH-SQUARE, LONDON.

COOKING RANGES.—NICHOLSON'S

PRIZE COTTAGE COOKING, and other GRATES, which obtained the premiums offered by the Royal Agricultural Society at the York and Exeter meetings, may be seen in Prince Albert's Model Houses in Hyde-park, in the Model Structure of the Society for Improving the Condition of the Labouring Classes in the Great Exhibition Building, and at his allotment there (No. 97, Class 22), where also are exhibited his recent improvements in large Cooking Grates, including the newly invented Cosmopolitan Cooking Stove, or complete suit of Kitchen Apparatus in one piece, and his Anglo-German Cooking Stove for Cottagers, Emigrants, &c., to which a silver medal was specially awarded at the Exeter show. They may be procured at PIERCE'S, Jermyn-street. London, and of most respectable Country Ironmongers. Price lists and full particulars will be sent on application to the Manufacturer (inclosing four postage stamps), Newark-on-Trent. N.B. Intending purchasers of kitchen grates are earnestly requested in default of receiving satisfactory information, to apply to the manufacturer direct.

CLARK and HUNT'S IRONMONGERY,

STOVE and METAL WAREHOUSE, 130, Shoreditch.

Improved Cottage Ranges, with	20	23	24	30 inch.
Large Oven and Boiler	20s.	27s.	32s.	34s.
Best Self-acting Ranges, with Oven and	31	34	36	42 inch.
Back Boiler, Bright Wrought Bars	54s.	56s.	58s.	62s.

Strong Elliptic Stoves, with Extra Back and Solid Bars, per inch, 3½d.

Register Stoves, with Solid Bars, per inch, 3d. Best Solar, with Fire Brick Back, per inch, 1½d.

Bright Stoves, with Two Fires, 50s. to 100s. each.

Cast Rain water Pipe	2	3	3 inch
	8d.	10d.	1s. per yard.

Cast Gutters—4 inch, 8d. per yard.

O. G. Gutters	4	4½ inch.	
	11d.	1s per yard.	
Best Cut Clasp and Rose	1½	1½	2	2½	3 inch.
	14s. 6d.	14s.	12s 6d.	12s.	12s. per cwt.

Sheet Flooring Brads, 11s 6d per cwt.
1-inch Cut Lath, 14s. Cast Lath, 9s. 6d.
6 inch 2 Bolt Rd. Ward Mortice, with best Furniture and Patent Spindles, 2s. 9d. Light Elliptic and Register Metal, 12s per cwt.
Hot Water Pipes, 8s. 6d per cwt.
Dr Arnott's Ventilators, 5s. each.
An extensive stock of bar, rod, hoop, and sheet iron.
Clark and Hunt's Improved Glass Paper.

TO BUILDERS, CABINET-MAKERS, and OTHERS.

Best Cut Sheet Flooring Brads, 11s. 6d. per cwt.
Fine Cut Clasp and Rose.

14s. 6d.	14s. 6d.	12s. 6d.	12s.	12s. 3d.	per cwt.
1½	1½	2	2½	3 inch.	

Cross Garnet Hinges, per dozen pair.

2s. 9d.	3s. 9d.	4s.	4s. 6d.	5s.	7s. 3d.	
10	13	14	16	18	20 in.	

Best Bright Tower Bolts, per doz.

1s. 3d.	1s. 7d.	2s.	2s. 6d.	3s. 9d.	3s. 3d.	3s. 7d.
3	4	5	6	7	8	9 in.

Iron Main-water Pipe.

8d.	10d.	1s. 1d.	1s. 8d.	1s. 6d.	per yard.
2	2½	3	3½	4 inch.	

Best London Glue, 40s. per cwt.
Cast Lath Nails, 10s. per cwt.
Air Bricks, 3s. 6d. per doz.
Hooping for bond, 8l. 10s. per ton
Sash Weights, 3s. per cwt.

TERMS—NET CASH.

A price-list may be had on application.

A. L. PFEIL and Co.,
Wholesale Ironmongers, Brass Foundry and Nail Warehouse,
3 and 4, Broad-street, Bloomsbury, London.
AGENTS FOR LEA'S PATENT MORTISE LOCKS AND BOLTS.

TO BUILDERS, CARPENTERS, CABINET MAKERS, &c.

JOHN DALE, 18 and 19, Chiswell-street, Finsbury-square, begs to inform the above Trades that he has now added the business of the late Mr. WILLIAMSON to his own old-established concern, and respectfully invites an inspection of his immense stock of Ironmongery, which cannot be surpassed in London, every article being of the best quality and lowest possible prices:—

Elliptic Stoves, double backs, 2½d. per inch.
Register Stoves, 3d. 4d. 6½d. 7½d. per inch.
Self-acting Ranges, with circular ovens and back boilers, best wrought bars and bright fittings:—
3 ft., 2l. 16s.; 3 ft. 6 in., 2l. 4s.; 4 ft., 2l. 18s.
3-feet Cottage Ranges, with ovens and back boilers, 30s. each.
3-feet self-acting ditto, ditto, 32s. each.
Air Bricks, 3s 6d. per doz.—1-inch Cut Lath Nails, 12s. 6d. per cwt.
Best Patent Cut Clasp.

1½	1½	2	2½	3 inch and larger.
14s. 6d.	14s.	12s. 6d.	12s.	per cwt.

Best Sheet Floor Brads, 11s. 6d per cwt
Best Town Glue, 35s. Ditto, Scotch, 32s per cwt.
Best Patent Sash Line.

1	2	3	4	5	6
4s.	4s. 6d.	5s. 6d	7s.	8s.	10s. 6d. per gross.

List of Prices had on application at the Warehouse, or by letter prepaid.

TO BUILDERS, CARPENTERS, &c.

G. C. LEWIS, Ironmonger, Stove and Range Manufacturer, opposite Albert gate, Knightsbridge, has in stock every article for the supply of the trade at wholesale prices.

Best Cut Clasp.

15s.	14s. 6d.	13s. 6d.	12s. 6d.	12s. 3d.	per cwt.
1½	1½	2	2½	3 inch.	

Best Cut Flooring Brads, 11s. 6d. per cwt.
Malleable Slate Pins, 2s. per cwt.
Tower Bolts.

1s. 4d.	1s. 6d.	2s. 3d.	2s. 6d.	3s.	per dozen.
3	4	5	6	7	inch.

Best Patent Sash Line.

4s.	4s. 6d.	5s. 6d.	7s.	8s.	10s. 6d. per gross.
No. 1	2	3	4	5	6

Dr Arnott's Ventilators, 5s., 5s. 6d., 6s. 6d. each.
Air Bricks, 3s. 6d. per dozen. Sash Weights, 3s. 3d. per cwt.
A general assortment of Elliptic and Register Stoves, Kitchen Ranges, Rim and Mortice Locks, Door Furniture in great variety, Bell Cranks, Levers, &c. Rain Water Pipes, Heads, and Gutters. Cabinet Brass Work and Locks in great variety.

PATENT WROUGHT NAILS.—These

NAILS are submitted to the notice of Builders, Contractors, and Shipbuilders, as being superior to any others and cheaper. They have the toughness of the best hand-made nails, with far greater uniformity of make. The flat-pointed rose nails are particularly recommended wherever oak or other hard wood is used; being perfectly chisel pointed, they require no boring, and will drive into the hardest wood without splitting it, and their heads being very strong do not fly off. The patent wrought nails may be had of all ironmongers. A stock of them is kept at the warehouses of the agents, HIGGS and GEORGE, Wholesale Ironmongers, 179, Borough, London.

WARMING BY HOT WATER.—

J. WEEKS and CO.'S HOT WATER APPARATUS may be seen in extensive operation on their premises, King's-road, Chelsea; they have also erected their apparatus for various purposes throughout the kingdom; references can be given in almost every district. They beg particularly to refer to their own establishment, and also to that of Mr. Stocken's extensive carriage repository, Halkin-street, Hyde-park-corner, where the apparatus may be seen in operation. Ornamental Pedestals and Stacks of Pipes in great variety, applicable for warming churches, mansions, entrance-halls, offices, conservatories, &c.—TUBULAR BOILERS of all sizes, warranted to be the most efficient and economical of any yet introduced.—J. WEEKS and CO., Hot Water Apparatus Manufacturers, King's-road, Chelsea.

WARMING AND VENTILATION.—

D. and E. BAILEY, 271, Holborn, having had many years' experience in Warming Buildings by Hot Water, continue to erect HOT-WATER APPARATUS on the most improved principles for Mansions, Conservatories and other Horticultural Buildings; and they also erect Conservatories, Hothouses, &c., in wood or metal. D. and E. BAILEY invite the public to an inspection of their stock of Stoves, Fenders, Fire irons, &c.; as well as a most complete and economical Portable Cooking Apparatus, or "Cottager's Stove," equally suitable for Cottages, Shooting Boxes, Yachts, or for persons emigrating.

Dr. Arnott's Ventilating Valve.

ELEY and CO., HOT WATER

WORKS, City-road (nearly opposite the Fountain Tavern), London, manufacturers of the various descriptions of Hot Water Apparatus, for heating horticultural works, churches and other public buildings; mansions, offices, baths, &c. &c., on the most scientific principles. Manufactories requiring artificial heat fitted up with effective and economical apparatus by contract or otherwise. Architects, surveyors, and the trade attended to in any part of town or country.

HOT-WATER APPARATUS.—The

attention of architects, builders, and others is respectfully requested to BENJAMIN FOWLER'S superior method of heating churches and chapels, halls, staircases, conservatories, forcing and green houses, manufactories and warehouses, kilns, rooms for drying timber, &c., and every variety of purpose for which artificial heat is required. Within the last twenty years some hundreds of buildings have been heated upon this plan, and the parties for whom they were executed are constantly expressing their satisfaction, and their willingness to vouch for their efficiency.

BENJAMIN FOWLER, late of 63, Dorset-street, removed to the new factory, Whitefriars-street, Fleet-street.

TO BUILDERS AND FLORISTS.

IRON PIPES for hot-water circulation, with Boilers, Fittings, and every connection, at wholesale prices. RAIN-WATER PIPES, rave and O G gutters, air bricks, sash weights, and railing bars; STABLE FITTINGS, pumps, lamp columns, wrought-iron tubing and under-ground pipes of all sizes, and on the above terms, at LYNCH WHITE'S, Old Barge Iron Wharf, Upper Ground-street, London.

CAST-IRON PIPES, IRON WORK FOR OVENS, &c.

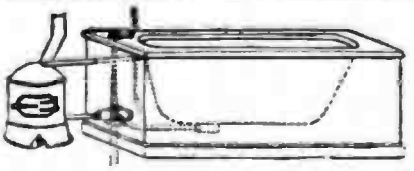
RAIN PIPES, &c.—F. A. TIDDEMAN and Co., St. Ann's Wharf, Earl-street, City, near Blackfriars-bridge, keeps a large stock of Rain Pipes, Heads, Shoes, Elbows, &c., half round and O. G. Gutters, Socket Pipes for Water or Gas, Flanch Pipes, Sash Weights, and other Castings; Iron Work for Bakers' Ovens of every description, fitted complete, to be had in sets or in parts—Prices equal to all competition. Contracts taken to any extent. Goods landed. A powerful crane.

TO BUILDERS, IRONMONGERS, AND OTHERS.

RAIN-WATER PIPES, O G and Half-round Gutters, Sash-Weights, Railing Bars, Air Bricks &c.—J. JONES, Iron Merchant, Iron-bridge Wharf, No 6, Bankside, has the largest stock in London of the above and other castings of the very best quality. Also, cast-iron pipes for gas, water, or drainage; bends, tees, &c.; flange and hot-water pipes, with all the usual connections; lamp posts and retorts, stable fittings, pig troughs, &c. &c.

Prices will be forwarded on application, which will be cheaper than any other house in London.

J. JONES, IRON MERCHANT, IRON-BRIDGE WHARF, No. 6, BANKSIDE, LONDON, near the Southwark Iron Bridge.



BATHS.—J. TYLOR and SON'S

REGISTERED APPARATUS, consisting of Copper or Galvanised Iron Bath ("japanned in imitation of wood or marble") fixed in Frame complete, with Copper Circulating Boiler and Cock with Index-plate for the supply and waste water. This apparatus is complete in itself, and can be fixed without the assistance of bricklayer or carpenter. A warm bath can be ready for use in less than half an hour, at the cost of 2d. for fuel. Price 16 guineas.—Apply to the Ironmongers and Plumbers, or the manufacturers, J. TYLOR and SON, Warwick-lane, London.

DEFRIES' PATENT GAS BATH.—By

the use of the above a hot bath can be obtained in six minutes, for less than 2d. Every family should provide itself with this invaluable requisite, its limited cost placing it within the means of all and its simplicity within the management of a child. Defries' Economic Gas Cooking Stove are adapted for all establishments, large or small, and need only to be seen to be appreciated for their cleanliness and economy, entirely dispensing with all coal. To be seen daily in operation (Saturday excepted) at 145, Regent-street; and also in action, Defries' Dry Gas Meter, 40,000 in use. The apparatus can be applied for all heating purposes.

DOOR SPRINGS.—T. R. BODMER

begs to direct the attention of Architects, Builders, and others, to his Registered TORSIONAL DOOR SPRINGS, which are the most efficient and simple in action, neat in appearance, and capable of being adjusted to suit any door.—Sole agents for London, Messrs. DEANE, DRAY, and CO., London-bridge.

COLLINGE'S PATENT HINGES.—Sole

Manufacturers, CHARLES COLLINGE and CO., 65, Bridge-road, Lambeth, where a great variety are always on view for church, park, railroad, coachhouse, and other gates and doors of large and small dimensions, a gate of a ton weight moving with these hinges as easily as a wicket. Ornamental hinges, adapted for drawing-rooms, &c.; doors fitted with them may be removed and replaced in an instant. Rising and double-acting spring hinges, and superior gate fastenings, at moderate prices. None genuine unless marked "Charles Collinge, Patent, Lambeth." Plain and ornamental cast and wrought-iron work, for building and other purposes. Engines, machinery, patent axletrees, sugar-mills, &c.

BLAKE and PARKIN,

MEADOW WORKS, SHEFFIELD,

Manufacturers of Circular and Mill Saws; Improved Cast Steel Files, for the use of engineers and machinists; patent tempered machine knives and cutters, manufactured for planing and grooving wood, for cutting paper, iron, stone, leather, &c., made to any pattern or dimensions with the utmost exactness. Warranted to work with a harder and finer edge than any other mode of temper.—Inventors of corrugated cast steel for taps, piston-rods, &c.—Manufacturers of railway springs, blister, shear, and cast steel, &c. &c.

C. PARKIN, Agent, 28, Clement's-lane, City.

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